

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

**AECOM, INC.**

**N6274223F0104 RH Fire Suppression System**

**60697810**

**SGS Job Number: FC6479**

**Sampling Date: 05/30/23**



### Report to:

**AECOM, Inc**  
**7595 Technology Way**  
**Denver, CO 80237**  
**katie.abbott@aecom.com; mark.kromis@aecom.com;**  
**watson.tanji@aecom.com; kristin.rutherford@aecom.com**  
**ATTN: Katie Abbott**

**Total number of pages in report: 52**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

**Norm Farmer**  
**Technical Director**

**Client Service contact: Elvin Kumar 407-425-6700**

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AL, AK, AR, CT, IA, KY, MA, MI, MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Case Narrative/Conformance Summary</b> .....	<b>4</b>
<b>Section 3: Summary of Hits</b> .....	<b>5</b>
<b>Section 4: Sample Results</b> .....	<b>6</b>
<b>4.1:</b> FC6479-1: AF-RHMW225401-WGN01B-2305W5 .....	7
<b>4.2:</b> FC6479-2: AF-HDMW225303-WGN01LF-2305W5 .....	10
<b>4.3:</b> FC6479-3: AF-RHMW10-WGN01LF-2305W5 .....	13
<b>Section 5: Misc. Forms</b> .....	<b>16</b>
<b>5.1:</b> Chain of Custody .....	17
<b>5.2:</b> QC Evaluation: DOD QSM5.x Limits .....	21
<b>Section 6: MS Semi-volatiles - QC Data Summaries</b> .....	<b>22</b>
<b>6.1:</b> Method Blank Summary .....	23
<b>6.2:</b> Blank Spike Summary .....	41
<b>6.3:</b> Matrix Spike Summary .....	49
<b>6.4:</b> Duplicate Summary .....	51

1

2

3

4

5

6



## Sample Summary

AECOM, INC.

Job No: FC6479

N6274223F0104 RH Fire Suppression System  
Project No: 60697810

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FC6479-1	05/30/23	08:55	EMCW05/31/23	AQ	Ground Water	AF-RHMW225401-WGN01B-2305W5
FC6479-2	05/30/23	09:50	AYCP 05/31/23	AQ	Ground Water	AF-HDMW225303-WGN01LF-2305W5
FC6479-3	05/30/23	11:50	AYCP 05/31/23	AQ	Ground Water	AF-RHMW10-WGN01LF-2305W5

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** AECOM, INC.

**Job No:** FC6479

**Site:** N6274223F0104 RH Fire Suppression System

**Report Date:** 6/9/2023 2:47:53 PM

On 05/31/2023, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC6479 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### MS Semi-volatiles By Method EPA DRAFT 1633

**Matrix:** AQ

**Batch ID:** OP97179

Sample(s) FC6237-19MS, FC6479-2DUP were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorobutanesulfonic acid, Perfluoroheptanesulfonic acid, Perfluorohexanoic acid, Perfluoropentanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

---

Kim Benham, Client Services (*Signature on File*)

## Summary of Hits

Job Number: FC6479  
Account: AECOM, INC.  
Project: N6274223F0104 RH Fire Suppression System  
Collected: 05/30/23



Lab Sample ID	Client Sample ID	Result/ Analyte	LOQ	LOD	Units	Method
---------------	------------------	--------------------	-----	-----	-------	--------

FC6479-1 AF-RHMW225401-WGN01B-2305W5

Perfluoropentanoic acid	1.7 J	7.1	1.8	ng/l	EPA DRAFT 1633
Perfluorohexanoic acid	1.2 J	3.6	1.8	ng/l	EPA DRAFT 1633
Perfluoroheptanoic acid	0.78 J	3.6	1.8	ng/l	EPA DRAFT 1633
Perfluorooctanoic acid	1.4 J	3.6	0.89	ng/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid	0.68 J	3.6	1.8	ng/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid	0.79 J	3.6	1.8	ng/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid	1.3 J	3.6	1.8	ng/l	EPA DRAFT 1633

FC6479-2 AF-HDMW225303-WGN01LF-2305W5

No hits reported in this sample.

FC6479-3 AF-RHMW10-WGN01LF-2305W5

No hits reported in this sample.

**Sample Results**

---

**Report of Analysis**

---

# Report of Analysis

Client Sample ID:	AF-RHMW225401-WGN01B-2305W5		
Lab Sample ID:	FC6479-1	Date Sampled:	05/30/23
Matrix:	AQ - Ground Water	Date Received:	05/31/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q18936.D	1	06/07/23 12:07	MV	06/02/23 12:15	OP97179	S6Q283
Run #2							

Run #	Initial Volume	Final Volume
Run #1	560 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.6 U	14	3.6	1.7	ng/l	
2706-90-3	Perfluoropentanoic acid	1.7	7.1	1.8	0.84	ng/l	J
307-24-4	Perfluorohexanoic acid	1.2	3.6	1.8	0.45	ng/l	J
375-85-9	Perfluoroheptanoic acid	0.78	3.6	1.8	0.45	ng/l	J
335-67-1	Perfluorooctanoic acid	1.4	3.6	0.89	0.45	ng/l	J
375-95-1	Perfluorononanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
335-76-2	Perfluorodecanoic acid	1.8 U	3.6	1.8	0.45	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
307-55-1	Perfluorododecanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.8 U	3.6	1.8	0.75	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.8 U	3.6	1.8	0.45	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	0.68	3.6	1.8	0.45	ng/l	J
2706-91-4	Perfluoropentanesulfonic acid	3.6 U	4.5	3.6	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	0.79	3.6	1.8	0.62	ng/l	J
375-92-8	Perfluoroheptanesulfonic acid	1.8 U	3.6	1.8	0.45	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.3	3.6	1.8	0.48	ng/l	J
68259-12-1	Perfluorononanesulfonic acid	1.8 U	3.6	1.8	0.51	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.8 U	3.6	1.8	0.57	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.6 U	4.5	3.6	1.0	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.1 U	18	7.1	2.9	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.1 U	18	7.1	3.1	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.1 U	18	7.1	3.7	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.8 U	3.6	1.8	0.60	ng/l	
31506-32-8	MeFOSA	3.6 U	7.1	3.6	0.89	ng/l	
4151-50-2	EtFOSA	3.6 U	7.1	3.6	0.89	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW225401-WGN01B-2305W5	
Lab Sample ID:	FC6479-1	Date Sampled: 05/30/23
Matrix:	AQ - Ground Water	Date Received: 05/31/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project:	N6274223F0104 RH Fire Suppression System	

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.6 U	4.5	3.6	0.89	ng/l	
2991-50-6	EtFOSAA	3.6 U	4.5	3.6	1.2	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	18 U	36	18	3.9	ng/l	
1691-99-2	EtFOSE	18 U	36	18	6.6	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.8 U	3.6	1.8	0.89	ng/l	
919005-14-4	ADONA	3.6 U	7.1	3.6	1.7	ng/l	
377-73-1	PFMPA	1.8 U	7.1	1.8	0.89	ng/l	
863090-89-5	PFMBA	3.6 U	7.1	3.6	1.0	ng/l	
151772-58-6	NFDHA	3.6 U	7.1	3.6	1.1	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.6 U	7.1	3.6	1.2	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.6 U	7.1	3.6	1.6	ng/l	
113507-82-7	PFEESA	1.8 U	7.1	1.8	0.70	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	8.9 U	18	8.9	4.0	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	18 U	89	18	7.8	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	18 U	89	18	7.0	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
---------	------------------------	--------	--------	--------

13C4-PFBA	95%		20-150%
13C5-PFPeA	101%		20-150%
13C5-PFHxA	99%		20-150%
13C4-PFHpA	98%		20-150%
13C8-PFOA	98%		20-150%
13C9-PFNA	95%		20-150%
13C6-PFDA	92%		20-150%
13C7-PFUnDA	90%		20-150%
13C2-PFDoDA	78%		20-150%
13C2-PFTeDA	73%		20-150%
13C3-PFBS	108%		20-150%
13C3-PFHxS	104%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b>	AF-RHMW225401-WGN01B-2305W5	
<b>Lab Sample ID:</b>	FC6479-1	<b>Date Sampled:</b> 05/30/23
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b> 05/31/23
<b>Method:</b>	EPA DRAFT 1633 EPA 1633 DRAFT	<b>Percent Solids:</b> n/a
<b>Project:</b>	N6274223F0104 RH Fire Suppression System	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	93%		20-150%
	13C8-FOSA	99%		20-150%
	d3-MeFOSA	82%		20-150%
	d5-EtFOSA	77%		20-150%
	d3-MeFOSAA	98%		20-150%
	d5-EtFOSAA	96%		20-150%
	d7-MeFOSE	76%		20-150%
	d9-EtFOSE	74%		20-150%
	13C2-4:2FTS	113%		20-180%
	13C2-6:2FTS	109%		20-180%
	13C2-8:2FTS	106%		20-180%
	13C3-HFPO-DA	102%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-HDMW225303-WGN01LF-2305W5		
Lab Sample ID:	FC6479-2	Date Sampled:	05/30/23
Matrix:	AQ - Ground Water	Date Received:	05/31/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q18937.D	1	06/07/23 12:21	MV	06/02/23 12:15	OP97179	S6Q283
Run #2							

Run #	Initial Volume	Final Volume
Run #1	425 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	4.7 U	19	4.7	2.2	ng/l	
2706-90-3	Perfluoropentanoic acid	2.4 U	9.4	2.4	1.1	ng/l	
307-24-4	Perfluorohexanoic acid	2.4 U	4.7	2.4	0.59	ng/l	
375-85-9	Perfluoroheptanoic acid	2.4 U	4.7	2.4	0.59	ng/l	
335-67-1	Perfluorooctanoic acid	1.2 U	4.7	1.2	0.59	ng/l	
375-95-1	Perfluorononanoic acid	2.4 U	4.7	2.4	0.72	ng/l	
335-76-2	Perfluorodecanoic acid	2.4 U	4.7	2.4	0.59	ng/l	
2058-94-8	Perfluoroundecanoic acid	2.4 U	4.7	2.4	0.71	ng/l	
307-55-1	Perfluorododecanoic acid	2.4 U	4.7	2.4	0.71	ng/l	
72629-94-8	Perfluorotridecanoic acid	2.4 U	4.7	2.4	0.99	ng/l	
376-06-7	Perfluorotetradecanoic acid	2.4 U	4.7	2.4	0.59	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	2.4 U	4.7	2.4	0.59	ng/l	
2706-91-4	Perfluoropentanesulfonic acid	4.7 U	5.9	4.7	1.3	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2.4 U	4.7	2.4	0.82	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	2.4 U	4.7	2.4	0.59	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	2.4 U	4.7	2.4	0.64	ng/l	
68259-12-1	Perfluorononanesulfonic acid	2.4 U	4.7	2.4	0.67	ng/l	
335-77-3	Perfluorodecanesulfonic acid	2.4 U	4.7	2.4	0.75	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	4.7 U	5.9	4.7	1.3	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	9.4 U	24	9.4	3.8	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	9.4 U	24	9.4	4.1	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	9.4 U	24	9.4	4.8	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	2.4 U	4.7	2.4	0.79	ng/l	
31506-32-8	MeFOSA	4.7 U	9.4	4.7	1.2	ng/l	
4151-50-2	EtFOSA	4.7 U	9.4	4.7	1.2	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.2  
4

# Report of Analysis

Client Sample ID:	AF-HDMW225303-WGN01LF-2305W5		
Lab Sample ID:	FC6479-2	Date Sampled:	05/30/23
Matrix:	AQ - Ground Water	Date Received:	05/31/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	4.7 U	5.9	4.7	1.2	ng/l	
2991-50-6	EtFOSAA	4.7 U	5.9	4.7	1.6	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	24 U	47	24	5.2	ng/l	
1691-99-2	EtFOSE	24 U	47	24	8.7	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	2.4 U	4.7	2.4	1.2	ng/l	
919005-14-4	ADONA	4.7 U	9.4	4.7	2.2	ng/l	
377-73-1	PFMPA	2.4 U	9.4	2.4	1.2	ng/l	
863090-89-5	PFMBA	4.7 U	9.4	4.7	1.3	ng/l	
151772-58-6	NFDHA	4.7 U	9.4	4.7	1.4	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	4.7 U	9.4	4.7	1.6	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.7 U	9.4	4.7	2.1	ng/l	
113507-82-7	PFEESA	2.4 U	9.4	2.4	0.92	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	12 U	24	12	5.3	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	24 U	120	24	10	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	24 U	120	24	9.2	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	79%		20-150%
	13C5-PFPeA	82%		20-150%
	13C5-PFHxA	85%		20-150%
	13C4-PFHpA	83%		20-150%
	13C8-PFOA	78%		20-150%
	13C9-PFNA	77%		20-150%
	13C6-PFDA	73%		20-150%
	13C7-PFUnDA	63%		20-150%
	13C2-PFDoDA	57%		20-150%
	13C2-PFTeDA	51%		20-150%
	13C3-PFBS	79%		20-150%
	13C3-PFHxS	79%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	AF-HDMW225303-WGN01LF-2305W5		
<b>Lab Sample ID:</b>	FC6479-2	<b>Date Sampled:</b>	05/30/23
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b>	05/31/23
<b>Method:</b>	EPA DRAFT 1633 EPA 1633 DRAFT	<b>Percent Solids:</b>	n/a
<b>Project:</b>	N6274223F0104 RH Fire Suppression System		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	69%		20-150%
	13C8-FOSA	63%		20-150%
	d3-MeFOSA	60%		20-150%
	d5-EtFOSA	62%		20-150%
	d3-MeFOSAA	75%		20-150%
	d5-EtFOSAA	68%		20-150%
	d7-MeFOSE	56%		20-150%
	d9-EtFOSE	59%		20-150%
	13C2-4:2FTS	80%		20-180%
	13C2-6:2FTS	85%		20-180%
	13C2-8:2FTS	77%		20-180%
	13C3-HFPO-DA	84%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW10-WGN01LF-2305W5		
Lab Sample ID:	FC6479-3	Date Sampled:	05/30/23
Matrix:	AQ - Ground Water	Date Received:	05/31/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q18939.D	1	06/07/23 12:50	MV	06/02/23 12:15	OP97179	S6Q283
Run #2							

Run #	Initial Volume	Final Volume
Run #1	560 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.6 U	14	3.6	1.7	ng/l	
2706-90-3	Perfluoropentanoic acid	1.8 U	7.1	1.8	0.84	ng/l	
307-24-4	Perfluorohexanoic acid	1.8 U	3.6	1.8	0.45	ng/l	
375-85-9	Perfluoroheptanoic acid	1.8 U	3.6	1.8	0.45	ng/l	
335-67-1	Perfluorooctanoic acid	0.89 U	3.6	0.89	0.45	ng/l	
375-95-1	Perfluorononanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
335-76-2	Perfluorodecanoic acid	1.8 U	3.6	1.8	0.45	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
307-55-1	Perfluorododecanoic acid	1.8 U	3.6	1.8	0.54	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.8 U	3.6	1.8	0.75	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.8 U	3.6	1.8	0.45	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	1.8 U	3.6	1.8	0.45	ng/l	
2706-91-4	Perfluoropentanesulfonic acid	3.6 U	4.5	3.6	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.8 U	3.6	1.8	0.62	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	1.8 U	3.6	1.8	0.45	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.8 U	3.6	1.8	0.48	ng/l	
68259-12-1	Perfluorononanesulfonic acid	1.8 U	3.6	1.8	0.51	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.8 U	3.6	1.8	0.57	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.6 U	4.5	3.6	1.0	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.1 U	18	7.1	2.9	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.1 U	18	7.1	3.1	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.1 U	18	7.1	3.7	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.8 U	3.6	1.8	0.60	ng/l	
31506-32-8	MeFOSA	3.6 U	7.1	3.6	0.89	ng/l	
4151-50-2	EtFOSA	3.6 U	7.1	3.6	0.89	ng/l	

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Client Sample ID:	AF-RHMW10-WGN01LF-2305W5		Date Sampled:	05/30/23
Lab Sample ID:	FC6479-3	Date Received:	05/31/23	
Matrix:	AQ - Ground Water	Percent Solids:	n/a	
Method:	EPA DRAFT 1633 EPA 1633 DRAFT			
Project:	N6274223F0104 RH Fire Suppression System			

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
---------	----------	--------	-----	-----	----	-------	---

**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.6 U	4.5	3.6	0.89	ng/l	
2991-50-6	EtFOSAA	3.6 U	4.5	3.6	1.2	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	18 U	36	18	3.9	ng/l	
1691-99-2	EtFOSE	18 U	36	18	6.6	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.8 U	3.6	1.8	0.89	ng/l	
919005-14-4	ADONA	3.6 U	7.1	3.6	1.7	ng/l	
377-73-1	PFMPA	1.8 U	7.1	1.8	0.89	ng/l	
863090-89-5	PFMBA	3.6 U	7.1	3.6	1.0	ng/l	
151772-58-6	NFDHA	3.6 U	7.1	3.6	1.1	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.6 U	7.1	3.6	1.2	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.6 U	7.1	3.6	1.6	ng/l	
113507-82-7	PFEESA	1.8 U	7.1	1.8	0.70	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	8.9 U	18	8.9	4.0	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	18 U	89	18	7.8	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	18 U	89	18	7.0	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
---------	------------------------	--------	--------	--------

	13C4-PFBA	91%		20-150%
	13C5-PFPeA	93%		20-150%
	13C5-PFHxA	90%		20-150%
	13C4-PFHpA	91%		20-150%
	13C8-PFOA	87%		20-150%
	13C9-PFNA	86%		20-150%
	13C6-PFDA	81%		20-150%
	13C7-PFUnDA	83%		20-150%
	13C2-PFDoDA	75%		20-150%
	13C2-PFTeDA	61%		20-150%
	13C3-PFBS	94%		20-150%
	13C3-PFHxS	86%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	AF-RHMW10-WGN01LF-2305W5	
<b>Lab Sample ID:</b>	FC6479-3	<b>Date Sampled:</b> 05/30/23
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b> 05/31/23
<b>Method:</b>	EPA DRAFT 1633 EPA 1633 DRAFT	<b>Percent Solids:</b> n/a
<b>Project:</b>	N6274223F0104 RH Fire Suppression System	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	90%		20-150%
	13C8-FOSA	93%		20-150%
	d3-MeFOSA	74%		20-150%
	d5-EtFOSA	71%		20-150%
	d3-MeFOSAA	102%		20-150%
	d5-EtFOSAA	93%		20-150%
	d7-MeFOSE	70%		20-150%
	d9-EtFOSE	69%		20-150%
	13C2-4:2FTS	97%		20-180%
	13C2-6:2FTS	95%		20-180%
	13C2-8:2FTS	90%		20-180%
	13C3-HFPO-DA	98%		20-150%

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Misc. Forms**

**Custody Documents and Other Forms**

---

**Includes the following where applicable:**

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits







SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811  
TEL: 407-425-6700 FAX: 407-425-0707  
www.sgs.com

COC #: 2305W5AFSG04

PAGE 1 OF 1

SGS - ORLANDO JOB # :

SGS - ORLANDO Quote #

SI: FFF

FC6479

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes						
Company Name: AECOM		Project Name: N6274223F0104 RH Fire Suppression System		<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 5px;">PFAS EPA Draft 1633</div> <div style="border: 1px solid black; padding: 5px; margin-left: 10px;">           HW 5/30/23         </div> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe						
Address: 1001 Bishop St. ste 1600		Street																		
City: Honolulu State: HI Zip: 96813		City: Honolulu State: Hawaii																		
Project Contact: Katie Abbott Email: katie.abbott@aecom.com		Project # 60697810																		
Project Manager: Watson Tanji Email: watson.tanji@aecom.com		Fax #																		
Sampler(s) Name(s) (Printed) Sampler 1: Andy Young Sampler 2: Cristian Perez		Client Purchase Order #																		
SGS Orlando Sample	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	FCL	NH <sub>3</sub>	NH <sub>4</sub>	PBOA	PBOB	PBOC	PBOZ	PBOA+PBOB+PBOC+PBOZ	P WATER	P MICH	LAB USE ONLY	
②	AF-HDMW225303-WGN01LF-2305W5	5/30/23	09:50	MJC/W	GW	3		X												
	W	5/30/23																		
Turnaround Time (Business days)				Data Deliverable Information				Comments / Remarks												
10 Day (Business) 7 Day <input checked="" type="checkbox"/> 5 Day 3 Day RUSH 2 Day RUSH 1 Day RUSH Other		Approved By: / Date:		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S				EDMS upload database: JBPHE EDMS Coverage: AFFF Assessment Sampling GW UNITED ANWB 016-2820636												
Rush T/A Data Available VIA Email or Lablink				Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by Sampler/Affiliation		Date Time:		Received By/Affiliation		Date Time:		Relinquished By/Affiliation		Date Time:		Received By/Affiliation								
1 Hunter Nishimura		05/15/23		2 Mariah Gascho AECOM		5/30/23		3 Mariah Gascho		5/30/23		4 United Cargo								
5 United Cargo				6 J/C 05/31/23 1515				7				8								
Lab Use Only: Cooler Temperature (s) Celsius (corrected):				<a href="http://www.sgs.com/en/terms-and-conditions">http://www.sgs.com/en/terms-and-conditions</a>																

PFAS\_COCS\_ALL.xls Rev 031318

FC6479: Chain of Custody

Page 2 of 4





## SGS Sample Receipt Summary

Job Number: FC6479

Client: AECOM

Project: N6274223F0104 RH Fire Suppression System

Date / Time Received: 5/31/2023 3:15:00 PM

Delivery Method: United Cargo/Airspace

Airbill #'s: United Cargo AWB #: 016-28266136

Therm ID: IR 1;

Therm CF: -0.1;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.3);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

**Cooler Information**

Y or N

- 1. Custody Seals Present
- 2. Custody Seals Intact
- 3. Temp criteria achieved
- 4. Cooler temp verification IR Gun
- 5. Cooler media Ice (Bag)

**Trip Blank Information**

Y or N N/A

- 1. Trip Blank present / cooler
  - 2. Trip Blank listed on COC
- W or S N/A
- 3. Type Of TB Received

**Sample Information**

Y or N N/A

- 1. Sample labels present on bottles
- 2. Samples preserved properly
- 3. Sufficient volume/containers recvd for analysis:
- 4. Condition of sample Intact
- 5. Sample recvd within HT
- 6. Dates/Times/IDs on COC match Sample Label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar received?
- 12. Residual Chlorine Present?

**Misc. Information**

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_ Number of 5035 Field Kits: \_\_\_\_\_ Number of Lab Filtered Metals: \_\_\_\_\_  
 Test Strip Lot #'s: pH 0-3 230320 pH 10-12 \_\_\_\_\_ Other: (Specify) pH 1.0 - 12.0 222221  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: SHAYLAP

Date: 5/31/2023 3:15:00 PM

Reviewer: CD

Date: 6/1/2023

**FC6479: Chain of Custody**

**Page 4 of 4**

5.1  
5

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FC6479  
**Account:** AECOM, INC.  
**Project:** N6274223F0104 RH Fire Suppression System  
**Collected:** 05/30/23

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No DOD QSM5.x Limits found for methods in this job.

---

\* Sample used for QC is not from job FC6479

5.2  
5

## MS Semi-volatiles

---

### QC Data Summaries

---

**Includes the following where applicable:**

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Instrument Blank

Job Number: FC6479  
Account: AECOMCOD AECOM, INC.  
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-IBLK	6Q18930.D	1	06/07/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Instrument Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-IBLK	6Q18930.D	1	06/07/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	100% 20-150%
	13C5-PFPeA	101% 20-150%
	13C5-PFHxA	100% 20-150%
	13C4-PFHpA	101% 20-150%
	13C8-PFOA	93% 20-150%
	13C9-PFNA	98% 20-150%
	13C6-PFDA	96% 20-150%
	13C7-PFUnDA	97% 20-150%
	13C2-PFDoDA	97% 20-150%
	13C2-PFTeDA	97% 20-150%
	13C3-PFBS	102% 20-150%
	13C3-PFHxS	102% 20-150%
	13C8-PFOS	105% 20-150%
	13C8-FOSA	104% 20-150%
	d3-MeFOSA	101% 20-150%
	d5-EtFOSA	107% 20-150%
	d3-MeFOSAA	112% 20-150%
	d5-EtFOSAA	114% 20-150%
	d7-MeFOSE	112% 20-150%
	d9-EtFOSE	108% 20-150%
	13C2-4:2FTS	111% 20-180%
	13C2-6:2FTS	102% 20-180%
	13C2-8:2FTS	105% 20-180%
	13C3-HFPO-DA	102% 20-150%

6.1.1  
6



# Instrument Blank

Job Number: FC6479  
Account: AECOMCOD AECOM, INC.  
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-IBLK	6Q19030.D	1	06/08/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Instrument Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-IBLK	6Q19030.D	1	06/08/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	101% 20-150%
	13C5-PFPeA	101% 20-150%
	13C5-PFHxA	108% 20-150%
	13C4-PFHpA	101% 20-150%
	13C8-PFOA	95% 20-150%
	13C9-PFNA	103% 20-150%
	13C6-PFDA	100% 20-150%
	13C7-PFUnDA	101% 20-150%
	13C2-PFDoDA	94% 20-150%
	13C2-PFTeDA	96% 20-150%
	13C3-PFBS	103% 20-150%
	13C3-PFHxS	102% 20-150%
	13C8-PFOS	95% 20-150%
	13C8-FOSA	94% 20-150%
	d3-MeFOSA	98% 20-150%
	d5-EtFOSA	99% 20-150%
	d3-MeFOSAA	111% 20-150%
	d5-EtFOSAA	107% 20-150%
	d7-MeFOSE	98% 20-150%
	d9-EtFOSE	98% 20-150%
	13C2-4:2FTS	118% 20-180%
	13C2-6:2FTS	110% 20-180%
	13C2-8:2FTS	103% 20-180%
	13C3-HFPO-DA	108% 20-150%

6.1.2  
6

# Method Blank Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-MB	6Q18911.D	1	06/06/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Method Blank Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-MB	6Q18911.D	1	06/06/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	97% 20-150%
	13C5-PFPeA	96% 20-150%
	13C5-PFHxA	98% 20-150%
	13C4-PFHpA	96% 20-150%
	13C8-PFOA	91% 20-150%
	13C9-PFNA	94% 20-150%
	13C6-PFDA	96% 20-150%
	13C7-PFUnDA	92% 20-150%
	13C2-PFDoDA	84% 20-150%
	13C2-PFTeDA	82% 20-150%
	13C3-PFBS	96% 20-150%
	13C3-PFHxS	99% 20-150%
	13C8-PFOS	94% 20-150%
	13C8-FOSA	94% 20-150%
	d3-MeFOSA	84% 20-150%
	d5-EtFOSA	87% 20-150%
	d3-MeFOSAA	101% 20-150%
	d5-EtFOSAA	95% 20-150%
	d7-MeFOSE	90% 20-150%
	d9-EtFOSE	97% 20-150%
	13C2-4:2FTS	101% 20-180%
	13C2-6:2FTS	113% 20-180%
	13C2-8:2FTS	105% 20-180%
	13C3-HFPO-DA	95% 20-150%

# Method Blank Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-MB	6Q18935.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Method Blank Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-MB	6Q18935.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	96% 20-150%
	13C5-PFPeA	98% 20-150%
	13C5-PFHxA	97% 20-150%
	13C4-PFHpA	98% 20-150%
	13C8-PFOA	96% 20-150%
	13C9-PFNA	91% 20-150%
	13C6-PFDA	98% 20-150%
	13C7-PFUnDA	99% 20-150%
	13C2-PFDoDA	89% 20-150%
	13C2-PFTeDA	83% 20-150%
	13C3-PFBS	93% 20-150%
	13C3-PFHxS	93% 20-150%
	13C8-PFOS	95% 20-150%
	13C8-FOSA	86% 20-150%
	d3-MeFOSA	82% 20-150%
	d5-EtFOSA	81% 20-150%
	d3-MeFOSAA	95% 20-150%
	d5-EtFOSAA	95% 20-150%
	d7-MeFOSE	89% 20-150%
	d9-EtFOSE	91% 20-150%
	13C2-4:2FTS	104% 20-180%
	13C2-6:2FTS	100% 20-180%
	13C2-8:2FTS	96% 20-180%
	13C3-HFPO-DA	98% 20-150%

6.1.4  
6

# Instrument Blank

Job Number: FC6479  
Account: AECOMCOD AECOM, INC.  
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q282-IBLK	6Q18879.D	1	06/06/23	MV	n/a	n/a	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97179-BS, OP97179-LLBS, OP97179-MS

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Instrument Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q282-IBLK	6Q18879.D	1	06/06/23	MV	n/a	n/a	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97179-BS, OP97179-LLBS, OP97179-MS

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	100% 20-150%
	13C5-PFPeA	100% 20-150%
	13C5-PFHxA	102% 20-150%
	13C4-PFHpA	100% 20-150%
	13C8-PFOA	102% 20-150%
	13C9-PFNA	99% 20-150%
	13C6-PFDA	104% 20-150%
	13C7-PFUnDA	108% 20-150%
	13C2-PFDoDA	100% 20-150%
	13C2-PFTeDA	101% 20-150%
	13C3-PFBS	105% 20-150%
	13C3-PFHxS	102% 20-150%
	13C8-PFOS	102% 20-150%
	13C8-FOSA	107% 20-150%
	d3-MeFOSA	106% 20-150%
	d5-EtFOSA	103% 20-150%
	d3-MeFOSAA	106% 20-150%
	d5-EtFOSAA	109% 20-150%
	d7-MeFOSE	105% 20-150%
	d9-EtFOSE	103% 20-150%
	13C2-4:2FTS	114% 20-180%
	13C2-6:2FTS	108% 20-180%
	13C2-8:2FTS	104% 20-180%
	13C3-HFPO-DA	99% 20-150%



# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q282-ICCB	6Q18908.D	1	06/06/23	MV	n/a	n/a	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97179-BS, OP97179-LLBS, OP97179-MB, OP97179-MS

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q282-ICCB	6Q18908.D	1	06/06/23	MV	n/a	n/a	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97179-BS, OP97179-LLBS, OP97179-MB, OP97179-MS

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	100% 20-150%
	13C5-PFPeA	101% 20-150%
	13C5-PFHxA	104% 20-150%
	13C4-PFHpA	101% 20-150%
	13C8-PFOA	96% 20-150%
	13C9-PFNA	90% 20-150%
	13C6-PFDA	103% 20-150%
	13C7-PFUnDA	97% 20-150%
	13C2-PFDoDA	92% 20-150%
	13C2-PFTeDA	96% 20-150%
	13C3-PFBS	94% 20-150%
	13C3-PFHxS	98% 20-150%
	13C8-PFOS	101% 20-150%
	13C8-FOSA	102% 20-150%
	d3-MeFOSA	100% 20-150%
	d5-EtFOSA	102% 20-150%
	d3-MeFOSAA	98% 20-150%
	d5-EtFOSAA	104% 20-150%
	d7-MeFOSE	103% 20-150%
	d9-EtFOSE	104% 20-150%
	13C2-4:2FTS	108% 20-180%
	13C2-6:2FTS	102% 20-180%
	13C2-8:2FTS	96% 20-180%
	13C3-HFPO-DA	101% 20-150%

# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q282-ICCB	6Q18919.D	1	06/07/23	MV	n/a	n/a	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97179-BS, OP97179-LLBS, OP97179-MB, OP97179-MS

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q282-ICCB	6Q18919.D	1	06/07/23	MV	n/a	n/a	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97179-BS, OP97179-LLBS, OP97179-MB, OP97179-MS

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	101% 20-150%
	13C5-PFPeA	101% 20-150%
	13C5-PFHxA	106% 20-150%
	13C4-PFHpA	102% 20-150%
	13C8-PFOA	102% 20-150%
	13C9-PFNA	95% 20-150%
	13C6-PFDA	92% 20-150%
	13C7-PFUnDA	91% 20-150%
	13C2-PFDoDA	96% 20-150%
	13C2-PFTeDA	95% 20-150%
	13C3-PFBS	94% 20-150%
	13C3-PFHxS	98% 20-150%
	13C8-PFOS	95% 20-150%
	13C8-FOSA	99% 20-150%
	d3-MeFOSA	96% 20-150%
	d5-EtFOSA	98% 20-150%
	d3-MeFOSAA	102% 20-150%
	d5-EtFOSAA	103% 20-150%
	d7-MeFOSE	98% 20-150%
	d9-EtFOSE	100% 20-150%
	13C2-4:2FTS	108% 20-180%
	13C2-6:2FTS	106% 20-180%
	13C2-8:2FTS	102% 20-180%
	13C3-HFPO-DA	97% 20-150%

6.1.7

6

# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-ICCB	6Q19026.D	1	06/08/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

S6Q283-IBLK

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-ICCB	6Q19026.D	1	06/08/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

S6Q283-IBLK

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	100% 20-150%
	13C5-PFPeA	108% 20-150%
	13C5-PFHxA	110% 20-150%
	13C4-PFHpA	105% 20-150%
	13C8-PFOA	96% 20-150%
	13C9-PFNA	105% 20-150%
	13C6-PFDA	98% 20-150%
	13C7-PFUnDA	101% 20-150%
	13C2-PFDoDA	99% 20-150%
	13C2-PFTeDA	99% 20-150%
	13C3-PFBS	104% 20-150%
	13C3-PFHxS	103% 20-150%
	13C8-PFOS	97% 20-150%
	13C8-FOSA	102% 20-150%
	d3-MeFOSA	101% 20-150%
	d5-EtFOSA	99% 20-150%
	d3-MeFOSAA	112% 20-150%
	d5-EtFOSAA	111% 20-150%
	d7-MeFOSE	100% 20-150%
	d9-EtFOSE	102% 20-150%
	13C2-4:2FTS	109% 20-180%
	13C2-6:2FTS	111% 20-180%
	13C2-8:2FTS	103% 20-180%
	13C3-HFPO-DA	110% 20-150%

# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-ICCB	6Q19041.D	1	06/08/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

S6Q283-IBLK

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

# Continuing Calibration Blank

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q283-ICCB	6Q19041.D	1	06/08/23	MV	n/a	n/a	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

S6Q283-IBLK

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	100% 20-150%
	13C5-PFPeA	107% 20-150%
	13C5-PFHxA	105% 20-150%
	13C4-PFHpA	106% 20-150%
	13C8-PFOA	96% 20-150%
	13C9-PFNA	99% 20-150%
	13C6-PFDA	106% 20-150%
	13C7-PFUnDA	102% 20-150%
	13C2-PFDoDA	99% 20-150%
	13C2-PFTeDA	103% 20-150%
	13C3-PFBS	105% 20-150%
	13C3-PFHxS	107% 20-150%
	13C8-PFOS	104% 20-150%
	13C8-FOSA	104% 20-150%
	d3-MeFOSA	105% 20-150%
	d5-EtFOSA	107% 20-150%
	d3-MeFOSAA	119% 20-150%
	d5-EtFOSAA	113% 20-150%
	d7-MeFOSE	104% 20-150%
	d9-EtFOSE	102% 20-150%
	13C2-4:2FTS	115% 20-180%
	13C2-6:2FTS	115% 20-180%
	13C2-8:2FTS	106% 20-180%
	13C3-HFPO-DA	114% 20-150%



# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-LLBS	6Q18910.D	1	06/06/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.03	0.0359	120	40-150
2706-90-3	Perfluoropentanoic acid	0.015	0.0177	118	40-150
307-24-4	Perfluorohexanoic acid	0.0075	0.0096	128	40-150
375-85-9	Perfluoroheptanoic acid	0.0075	0.0094	125	40-150
335-67-1	Perfluorooctanoic acid	0.0075	0.0084	112	40-150
375-95-1	Perfluorononanoic acid	0.0075	0.0093	124	40-150
335-76-2	Perfluorodecanoic acid	0.0075	0.0082	109	40-150
2058-94-8	Perfluoroundecanoic acid	0.0075	0.0073	97	40-150
307-55-1	Perfluorododecanoic acid	0.0075	0.0091	121	40-150
72629-94-8	Perfluorotridecanoic acid	0.0075	0.0084	112	40-150
376-06-7	Perfluorotetradecanoic acid	0.0075	0.0092	123	40-150
375-73-5	Perfluorobutanesulfonic acid	0.00665	0.0080	120	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.00706	0.0081	115	40-150
355-46-4	Perfluorohexanesulfonic acid	0.00686	0.0080	117	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.00715	0.0086	120	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.00696	0.0084	121	40-150
68259-12-1	Perfluorononanesulfonic acid	0.00722	0.0083	115	40-150
335-77-3	Perfluorodecanesulfonic acid	0.00724	0.0079	109	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.00728	0.0072	99	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0281	0.0336	119	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.0285	0.0351	123	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.0288	0.0380	132	40-150
754-91-6	PFOSA	0.0075	0.0090	120	40-150
31506-32-8	MeFOSA	0.015	0.0180	120	40-150
4151-50-2	EtFOSA	0.015	0.0176	117	40-150
2355-31-9	MeFOSAA	0.0075	0.0088	117	40-150
2991-50-6	EtFOSAA	0.0075	0.0091	121	40-150
24448-09-7	MeFOSE	0.0375	0.0435	116	40-150
1691-99-2	EtFOSE	0.0375	0.0416	111	40-150
13252-13-6	HFPO-DA (GenX)	0.015	0.0177	118	40-150
919005-14-4	ADONA	0.0142	0.0167	118	40-150
377-73-1	PFMPA	0.015	0.0185	123	40-150
863090-89-5	PFMBA	0.015	0.0182	121	40-150
151772-58-6	NFDHA	0.015	0.0186	124	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.014	0.0165	118	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0142	0.0152	107	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-LLBS	6Q18910.D	1	06/06/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0134	0.0158	118	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.0375	0.0453	121	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.188	0.223	119	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.188	0.223	119	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	101%	20-150%
	13C5-PFPeA	99%	20-150%
	13C5-PFHxA	100%	20-150%
	13C4-PFHpA	97%	20-150%
	13C8-PFOA	99%	20-150%
	13C9-PFNA	96%	20-150%
	13C6-PFDA	97%	20-150%
	13C7-PFUnDA	96%	20-150%
	13C2-PFDoDA	89%	20-150%
	13C2-PFTeDA	78%	20-150%
	13C3-PFBS	100%	20-150%
	13C3-PFHxS	102%	20-150%
	13C8-PFOS	103%	20-150%
	13C8-FOSA	100%	20-150%
	d3-MeFOSA	88%	20-150%
	d5-EtFOSA	86%	20-150%
	d3-MeFOSAA	109%	20-150%
	d5-EtFOSAA	104%	20-150%
	d7-MeFOSE	92%	20-150%
	d9-EtFOSE	103%	20-150%
	13C2-4:2FTS	107%	20-180%
	13C2-6:2FTS	111%	20-180%
	13C2-8:2FTS	106%	20-180%
	13C3-HFPO-DA	101%	20-150%

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-LLBS	6Q18934.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.03	0.0360	120	40-150
2706-90-3	Perfluoropentanoic acid	0.015	0.0178	119	40-150
307-24-4	Perfluorohexanoic acid	0.0075	0.0094	125	40-150
375-85-9	Perfluoroheptanoic acid	0.0075	0.0088	117	40-150
335-67-1	Perfluorooctanoic acid	0.0075	0.0091	121	40-150
375-95-1	Perfluorononanoic acid	0.0075	0.0089	119	40-150
335-76-2	Perfluorodecanoic acid	0.0075	0.0089	119	40-150
2058-94-8	Perfluoroundecanoic acid	0.0075	0.0090	120	40-150
307-55-1	Perfluorododecanoic acid	0.0075	0.0096	128	40-150
72629-94-8	Perfluorotridecanoic acid	0.0075	0.0089	119	40-150
376-06-7	Perfluorotetradecanoic acid	0.0075	0.0096	128	40-150
375-73-5	Perfluorobutanesulfonic acid	0.00665	0.0082	123	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.00706	0.0081	115	40-150
355-46-4	Perfluorohexanesulfonic acid	0.00686	0.0077	112	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.00715	0.0087	122	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.00696	0.0082	118	40-150
68259-12-1	Perfluorononanesulfonic acid	0.00722	0.0090	125	40-150
335-77-3	Perfluorodecanesulfonic acid	0.00724	0.0080	111	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.00728	0.0074	102	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0281	0.0326	116	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.0285	0.0345	121	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.0288	0.0343	119	40-150
754-91-6	PFOSA	0.0075	0.0087	116	40-150
31506-32-8	MeFOSA	0.015	0.0181	121	40-150
4151-50-2	EtFOSA	0.015	0.0160	107	40-150
2355-31-9	MeFOSAA	0.0075	0.0080	107	40-150
2991-50-6	EtFOSAA	0.0075	0.0080	107	40-150
24448-09-7	MeFOSE	0.0375	0.0434	116	40-150
1691-99-2	EtFOSE	0.0375	0.0434	116	40-150
13252-13-6	HFPO-DA (GenX)	0.015	0.0183	122	40-150
919005-14-4	ADONA	0.0142	0.0173	122	40-150
377-73-1	PFMPA	0.015	0.0185	123	40-150
863090-89-5	PFMBA	0.015	0.0185	123	40-150
151772-58-6	NFDHA	0.015	0.0186	124	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.014	0.0171	122	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0142	0.0156	110	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-LLBS	6Q18934.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0134	0.0163	122	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.0375	0.0439	117	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.188	0.221	118	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.188	0.217	116	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	100%	20-150%
	13C5-PFPeA	102%	20-150%
	13C5-PFHxA	101%	20-150%
	13C4-PFHpA	102%	20-150%
	13C8-PFOA	98%	20-150%
	13C9-PFNA	96%	20-150%
	13C6-PFDA	105%	20-150%
	13C7-PFUnDA	99%	20-150%
	13C2-PFDoDA	91%	20-150%
	13C2-PFTeDA	87%	20-150%
	13C3-PFBS	100%	20-150%
	13C3-PFHxS	104%	20-150%
	13C8-PFOS	100%	20-150%
	13C8-FOSA	100%	20-150%
	d3-MeFOSA	85%	20-150%
	d5-EtFOSA	92%	20-150%
	d3-MeFOSAA	114%	20-150%
	d5-EtFOSAA	111%	20-150%
	d7-MeFOSE	92%	20-150%
	d9-EtFOSE	94%	20-150%
	13C2-4:2FTS	112%	20-180%
	13C2-6:2FTS	112%	20-180%
	13C2-8:2FTS	105%	20-180%
	13C3-HFPO-DA	100%	20-150%

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-BS	6Q18909.D	1	06/06/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.118	118	40-150
2706-90-3	Perfluoropentanoic acid	0.05	0.0607	121	40-150
307-24-4	Perfluorohexanoic acid	0.025	0.0307	123	40-150
375-85-9	Perfluoroheptanoic acid	0.025	0.0308	123	40-150
335-67-1	Perfluorooctanoic acid	0.025	0.0310	124	40-150
375-95-1	Perfluorononanoic acid	0.025	0.0311	124	40-150
335-76-2	Perfluorodecanoic acid	0.025	0.0285	114	40-150
2058-94-8	Perfluoroundecanoic acid	0.025	0.0301	120	40-150
307-55-1	Perfluorododecanoic acid	0.025	0.0304	122	40-150
72629-94-8	Perfluorotridecanoic acid	0.025	0.0312	125	40-150
376-06-7	Perfluorotetradecanoic acid	0.025	0.0316	126	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0287	129	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0286	122	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0295	129	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0292	123	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0274	118	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0301	125	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0293	121	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0285	118	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0938	0.110	117	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.118	124	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.126	131	40-150
754-91-6	PFOSA	0.025	0.0286	114	40-150
31506-32-8	MeFOSA	0.05	0.0624	125	40-150
4151-50-2	EtFOSA	0.05	0.0608	122	40-150
2355-31-9	MeFOSAA	0.025	0.0308	123	40-150
2991-50-6	EtFOSAA	0.025	0.0307	123	40-150
24448-09-7	MeFOSE	0.125	0.163	130	40-150
1691-99-2	EtFOSE	0.125	0.162	130	40-150
13252-13-6	HFPO-DA (GenX)	0.05	0.0606	121	40-150
919005-14-4	ADONA	0.0473	0.0555	117	40-150
377-73-1	PFMPA	0.05	0.0301	60	40-150
863090-89-5	PFMBA	0.05	0.0665	133	40-150
151772-58-6	NFDHA	0.05	0.0653	131	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0468	0.0570	122	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0473	0.0523	111	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-BS	6Q18909.D	1	06/06/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0534	120	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.0877	70	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.625	0.761	122	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.778	124	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	22%	20-150%
	13C5-PFPeA	80%	20-150%
	13C5-PFHxA	85%	20-150%
	13C4-PFHpA	88%	20-150%
	13C8-PFOA	87%	20-150%
	13C9-PFNA	85%	20-150%
	13C6-PFDA	97%	20-150%
	13C7-PFUnDA	93%	20-150%
	13C2-PFDoDA	89%	20-150%
	13C2-PFTeDA	82%	20-150%
	13C3-PFBS	83%	20-150%
	13C3-PFHxS	83%	20-150%
	13C8-PFOS	90%	20-150%
	13C8-FOSA	98%	20-150%
	d3-MeFOSA	90%	20-150%
	d5-EtFOSA	88%	20-150%
	d3-MeFOSAA	94%	20-150%
	d5-EtFOSAA	91%	20-150%
	d7-MeFOSE	81%	20-150%
	d9-EtFOSE	83%	20-150%
	13C2-4:2FTS	98%	20-180%
	13C2-6:2FTS	99%	20-180%
	13C2-8:2FTS	95%	20-180%
	13C3-HFPO-DA	91%	20-150%

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-BS	6Q18933.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.119	119	40-150
2706-90-3	Perfluoropentanoic acid	0.05	0.0605	121	40-150
307-24-4	Perfluorohexanoic acid	0.025	0.0313	125	40-150
375-85-9	Perfluoroheptanoic acid	0.025	0.0306	122	40-150
335-67-1	Perfluorooctanoic acid	0.025	0.0301	120	40-150
375-95-1	Perfluorononanoic acid	0.025	0.0319	128	40-150
335-76-2	Perfluorodecanoic acid	0.025	0.0313	125	40-150
2058-94-8	Perfluoroundecanoic acid	0.025	0.0319	128	40-150
307-55-1	Perfluorododecanoic acid	0.025	0.0328	131	40-150
72629-94-8	Perfluorotridecanoic acid	0.025	0.0318	127	40-150
376-06-7	Perfluorotetradecanoic acid	0.025	0.0308	123	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0265	120	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0279	119	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0267	117	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0307	129	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0296	128	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0303	126	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0302	125	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0293	121	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0938	0.109	116	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.120	126	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.119	124	40-150
754-91-6	PFOSA	0.025	0.0296	118	40-150
31506-32-8	MeFOSA	0.05	0.0613	123	40-150
4151-50-2	EtFOSA	0.05	0.0594	119	40-150
2355-31-9	MeFOSAA	0.025	0.0321	128	40-150
2991-50-6	EtFOSAA	0.025	0.0294	118	40-150
24448-09-7	MeFOSE	0.125	0.162	130	40-150
1691-99-2	EtFOSE	0.125	0.166	133	40-150
13252-13-6	HFPO-DA (GenX)	0.05	0.0617	123	40-150
919005-14-4	ADONA	0.0473	0.0584	124	40-150
377-73-1	PFMPA	0.05	0.0303	61	40-150
863090-89-5	PFMBA	0.05	0.0661	132	40-150
151772-58-6	NFDHA	0.05	0.0634	127	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0468	0.0558	119	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0473	0.0561	119	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-BS	6Q18933.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0531	119	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.0872	70	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.625	0.773	124	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.780	125	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	22%	20-150%
	13C5-PFPeA	83%	20-150%
	13C5-PFHxA	87%	20-150%
	13C4-PFHpA	87%	20-150%
	13C8-PFOA	93%	20-150%
	13C9-PFNA	84%	20-150%
	13C6-PFDA	89%	20-150%
	13C7-PFUnDA	94%	20-150%
	13C2-PFDoDA	88%	20-150%
	13C2-PFTeDA	85%	20-150%
	13C3-PFBS	83%	20-150%
	13C3-PFHxS	86%	20-150%
	13C8-PFOS	89%	20-150%
	13C8-FOSA	101%	20-150%
	d3-MeFOSA	92%	20-150%
	d5-EtFOSA	91%	20-150%
	d3-MeFOSAA	99%	20-150%
	d5-EtFOSAA	97%	20-150%
	d7-MeFOSE	82%	20-150%
	d9-EtFOSE	82%	20-150%
	13C2-4:2FTS	95%	20-180%
	13C2-6:2FTS	95%	20-180%
	13C2-8:2FTS	94%	20-180%
	13C3-HFPO-DA	90%	20-150%

\* = Outside of Control Limits.



# Matrix Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-MS	6Q18913.D	1	06/07/23	MV	06/02/23	OP97179	S6Q282
FC6237-19	6Q18912.D	1	06/07/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	FC6237-19 ug/l	Spike Q	MS ug/l	MS %	Limits	
375-22-4	Perfluorobutanoic acid	0.0072	J	0.133	0.171	123	40-150
2706-90-3	Perfluoropentanoic acid	0.0106	J	0.0667	0.0975	130	40-150
307-24-4	Perfluorohexanoic acid	0.0278		0.0333	0.0920	193*	40-150
375-85-9	Perfluoroheptanoic acid	0.0112		0.0333	0.0582	141	40-150
335-67-1	Perfluorooctanoic acid	0.0115		0.0333	0.0611	149	40-150
375-95-1	Perfluorononanoic acid	0.0053	U	0.0333	0.0439	132	40-150
335-76-2	Perfluorodecanoic acid	0.0053	U	0.0333	0.0401	120	40-150
2058-94-8	Perfluoroundecanoic acid	0.0053	U	0.0333	0.0425	128	40-150
307-55-1	Perfluorododecanoic acid	0.0053	U	0.0333	0.0429	129	40-150
72629-94-8	Perfluorotridecanoic acid	0.0053	U	0.0333	0.0431	129	40-150
376-06-7	Perfluorotetradecanoic acid	0.0053	U	0.0333	0.0425	128	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0240		0.0296	0.0835	201*	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0365		0.0314	0.112	241*	40-150
355-46-4	Perfluorohexanesulfonic acid	0.221		0.0305	0.485	867* a	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0086		0.0318	0.0649	177*	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.486		0.0309	1.06	1856* a	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0053	U	0.0321	0.0402	125	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0053	U	0.0322	0.0343	107	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0067	U	0.0323	0.0315	97	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.027	U	0.125	0.156	125	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.0114	J	0.127	0.174	128	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.027	U	0.128	0.166	130	40-150
754-91-6	PFOSA	0.0053	U	0.0333	0.0441	132	40-150
31506-32-8	MeFOSA	0.011	U	0.0667	0.0797	120	40-150
4151-50-2	EtFOSA	0.011	U	0.0667	0.0797	120	40-150
2355-31-9	MeFOSAA	0.0067	U	0.0333	0.0409	123	40-150
2991-50-6	EtFOSAA	0.0067	U	0.0333	0.0385	116	40-150
24448-09-7	MeFOSE	0.053	U	0.167	0.205	123	40-150
1691-99-2	EtFOSE	0.053	U	0.167	0.215	129	40-150
13252-13-6	HFPO-DA (GenX)	0.0053	U	0.0667	0.0798	120	40-150
919005-14-4	ADONA	0.011	U	0.063	0.0806	128	40-150
377-73-1	PFMPA	0.011	U	0.0667	0.0814	122	40-150
863090-89-5	PFMBA	0.011	U	0.0667	0.0809	121	40-150
151772-58-6	NFDHA	0.011	U	0.0667	0.0806	121	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.011	U	0.0623	0.0755	121	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.011	U	0.063	0.0640	102	40-150

\* = Outside of Control Limits.

# Matrix Spike Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-MS	6Q18913.D	1	06/07/23	MV	06/02/23	OP97179	S6Q282
FC6237-19	6Q18912.D	1	06/07/23	MV	06/02/23	OP97179	S6Q282

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	FC6237-19 ug/l	Spike Q	MS ug/l	MS %	Limits	
113507-82-7	PFEESA	0.011 U		0.0593	0.0713	120	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.027 U		0.167	0.205	123	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.13 U		0.833	1.01	121	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.13 U		0.833	1.02	122	40-150

CAS No.	ID Standard Recoveries	MS	FC6237-19	Limits
	13C4-PFBA	88%	93%	20-150%
	13C5-PFPeA	88%	91%	20-150%
	13C5-PFHxA	88%	90%	20-150%
	13C4-PFHpA	88%	89%	20-150%
	13C8-PFOA	84%	96%	20-150%
	13C9-PFNA	83%	86%	20-150%
	13C6-PFDA	81%	93%	20-150%
	13C7-PFUnDA	72%	84%	20-150%
	13C2-PFDoDA	64%	76%	20-150%
	13C2-PFTeDA	59%	66%	20-150%
	13C3-PFBS	85%	98%	20-150%
	13C3-PFHxS	84%	99%	20-150%
	13C8-PFOS	79%	94%	20-150%
	13C8-FOSA	80%		20-150%
	d3-MeFOSA	73%		20-150%
	d5-EtFOSA	72%		20-150%
	d3-MeFOSAA	82%	93%	20-150%
	d5-EtFOSAA	76%	85%	20-150%
	d7-MeFOSE	70%		20-150%
	d9-EtFOSE	71%		20-150%
	13C2-4:2FTS	84%		20-180%
	13C2-6:2FTS	84%	97%	20-180%
	13C2-8:2FTS	79%	97%	20-180%
	13C3-HFPO-DA	84%		20-150%

(a) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

# Duplicate Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-DUP	6Q18938.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283
FC6479-2	6Q18937.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	FC6479-2 ug/l	DUP Q ug/l	Q	RPD	Limits
375-22-4	Perfluorobutanoic acid	0.019 U	ND		nc	30
2706-90-3	Perfluoropentanoic acid	0.0094 U	ND		nc	30
307-24-4	Perfluorohexanoic acid	0.0047 U	ND		nc	30
375-85-9	Perfluoroheptanoic acid	0.0047 U	ND		nc	30
335-67-1	Perfluorooctanoic acid	0.0047 U	ND		nc	30
375-95-1	Perfluorononanoic acid	0.0047 U	ND		nc	30
335-76-2	Perfluorodecanoic acid	0.0047 U	ND		nc	30
2058-94-8	Perfluoroundecanoic acid	0.0047 U	ND		nc	30
307-55-1	Perfluorododecanoic acid	0.0047 U	ND		nc	30
72629-94-8	Perfluorotridecanoic acid	0.0047 U	ND		nc	30
376-06-7	Perfluorotetradecanoic acid	0.0047 U	ND		nc	30
375-73-5	Perfluorobutanesulfonic acid	0.0047 U	ND		nc	30
2706-91-4	Perfluoropentanesulfonic acid	0.0059 U	ND		nc	30
355-46-4	Perfluorohexanesulfonic acid	0.0047 U	ND		nc	30
375-92-8	Perfluoroheptanesulfonic acid	0.0047 U	ND		nc	30
1763-23-1	Perfluorooctanesulfonic acid	0.0047 U	ND		nc	30
68259-12-1	Perfluorononanesulfonic acid	0.0047 U	ND		nc	30
335-77-3	Perfluorodecanesulfonic acid	0.0047 U	ND		nc	30
79780-39-5	Perfluorododecanesulfonic aci	0.0059 U	ND		nc	30
757124-72-44:2	Fluorotelomer sulfonate	0.024 U	ND		nc	30
27619-97-2	6:2 Fluorotelomer sulfonate	0.024 U	ND		nc	30
39108-34-4	8:2 Fluorotelomer sulfonate	0.024 U	ND		nc	30
754-91-6	PFOSA	0.0047 U	ND		nc	30
31506-32-8	MeFOSA	0.0094 U	ND		nc	30
4151-50-2	EtFOSA	0.0094 U	ND		nc	30
2355-31-9	MeFOSAA	0.0059 U	ND		nc	30
2991-50-6	EtFOSAA	0.0059 U	ND		nc	30
24448-09-7	MeFOSE	0.047 U	ND		nc	30
1691-99-2	EtFOSE	0.047 U	ND		nc	30
13252-13-6	HFPO-DA (GenX)	0.0047 U	ND		nc	30
919005-14-4	ADONA	0.0094 U	ND		nc	30
377-73-1	PFMPA	0.0094 U	ND		nc	30
863090-89-5	PFMBA	0.0094 U	ND		nc	30
151772-58-6	NFDHA	0.0094 U	ND		nc	30
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0094 U	ND		nc	30
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0094 U	ND		nc	30

\* = Outside of Control Limits.

# Duplicate Summary

Job Number: FC6479  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97179-DUP	6Q18938.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283
FC6479-2	6Q18937.D	1	06/07/23	MV	06/02/23	OP97179	S6Q283

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6479-1, FC6479-2, FC6479-3

CAS No.	Compound	FC6479-2 ug/l	DUP Q	ug/l	Q	RPD	Limits
113507-82-7	PFEESA	0.0094	U	ND		nc	30
356-02-5	3:3 Fluorotelomer carboxylate	0.024	U	ND		nc	30
914637-49-35:3	Fluorotelomer carboxylate	0.12	U	ND		nc	30
812-70-4	7:3 Fluorotelomer carboxylate	0.12	U	ND		nc	30

CAS No.	ID Standard Recoveries	DUP	FC6479-2	Limits
	13C4-PFBA	87%	79%	20-150%
	13C5-PFPeA	88%	82%	20-150%
	13C5-PFHxA	89%	85%	20-150%
	13C4-PFHpA	88%	83%	20-150%
	13C8-PFOA	86%	78%	20-150%
	13C9-PFNA	84%	77%	20-150%
	13C6-PFDA	68%	73%	20-150%
	13C7-PFUnDA	66%	63%	20-150%
	13C2-PFDoDA	61%	57%	20-150%
	13C2-PFTeDA	56%	51%	20-150%
	13C3-PFBS	94%	79%	20-150%
	13C3-PFHxS	88%	79%	20-150%
	13C8-PFOS	76%	69%	20-150%
	13C8-FOSA	68%	63%	20-150%
	d3-MeFOSA	66%	60%	20-150%
	d5-EtFOSA	73%	62%	20-150%
	d3-MeFOSAA	78%	75%	20-150%
	d5-EtFOSAA	77%	68%	20-150%
	d7-MeFOSE	68%	56%	20-150%
	d9-EtFOSE	71%	59%	20-150%
	13C2-4:2FTS	89%	80%	20-180%
	13C2-6:2FTS	92%	85%	20-180%
	13C2-8:2FTS	79%	77%	20-180%
	13C3-HFPO-DA	90%	84%	20-150%

\* = Outside of Control Limits.